

WHAT IS CLAIMED IS:

1. A method of cleaning a passage including a liquid droplet ejection head and a conduit to feed a functional solution to the liquid droplet ejection head, the method comprising:

filling the passage with purified water;

filling the passage with a solvent dissolving both a solvent contained in the functional solution and the purified water; and

filling the passage with the solvent contained in the functional solution.

2. A method of cleaning a passage including a liquid droplet ejection head filled with a predetermined storage solution and a conduit to feed a functional solution to the liquid droplet ejection head, the method comprising:

filling the passage with a first solution dissolving the storage solution;

filling the passage with a second solvent dissolving both the first solvent and a solvent contained in the functional solution; and

filling the passage with the solvent contained in the functional solution.

3. The method according to Claim 1,

the passage filled with the functional solution after filling the passage with the solvent contained in the functional solution.

4. A method of storing a passage including a liquid droplet ejection head and a conduit to feed a functional solution to the liquid droplet ejection head, the method comprising:

filling the passage including the liquid droplet ejection head having ejected the functional solution with a solvent contained in the functional solution;

filling the passage with a solvent dissolving both the solvent contained in the functional solution and the purified water; and

filling the passage with purified water, after filling the passage with purified water the passage filled with a water-soluble storage solution.

5. A storage method including filling a passage, including a liquid droplet ejection head and a conduit to feed a functional solution to the liquid droplet ejection head, with a predetermined storage solution, the method comprising:

filling the passage, including the liquid droplet ejection head having ejected the functional solution, with a solvent contained in the functional solution;

filling the passage with a first solvent dissolving both the solvent contained in the functional solution and the storage solution; and

filling the passage with a second solvent dissolving the storage solution, after filling the passage with the second solvent the passage filled with the storage solution.

6. A pattern formation method of forming a film pattern by disposing liquid droplets of a functional solution on a substrate, the method comprising:

filling a passage, including a liquid droplet ejection head capable of disposing the liquid droplets and a conduit to feed the functional solution to the liquid droplet ejection head, with purified water;

filling the passage with a solvent dissolving both a solvent contained in the functional solution and the purified water;

filling the passage with the solvent contained in the functional solution;

forming a lyophobic film on a region surrounding a pattern formation region to form the film pattern defined on the substrate; and

disposing the liquid droplets into the pattern formation region with the liquid droplet ejection head.

7. A pattern formation method of forming a film pattern by disposing liquid droplets of a functional solution on a substrate, the method comprising:

filling a passage, including a liquid droplet ejection head filled with a predetermined storage solution and a conduit to feed the functional solution to the liquid droplet ejection head, with a first solvent dissolving the storage solution;

filling the passage with a second solvent dissolving both a first solvent and a solvent contained in the functional solution;

filling the passage with the solvent contained in the functional solution;

forming a lyophobic film on a region surrounding a pattern formation region to form the film pattern defined on the substrate; and

disposing the liquid droplets into the pattern formation region with the liquid droplet ejection head.

8. The pattern formation method according to Claim 6, the lyophobic film being a monolayer formed on a surface of the substrate.

9. The pattern formation method according to Claim 8, the monolayer being a self-assembled film made of organic molecules.

10. The pattern formation method according to Claim 6, the lyophobic film being a fluoride polymer film.

11. The pattern formation method according to Claim 6 ,

the functional solution exhibiting electrical conductivity by thermal or optical treatments.

12. A device manufacturing method, comprising:  
forming a film pattern on a substrate,  
the film pattern being formed on the substrate by the pattern formation method according to Claim 6.

13. An electro-optical device, comprising:  
the device manufactured by using the device manufacturing method according to Claim 12.

14. An electronic apparatus, comprising:  
the electro-optical device according to Claim 13.